

POLYESTER LAMINATE MATERIALS

Gerald A. Hutchinson et al.

Appl. No.: Unknown Atty Docket: APTLTD.40CP2DC

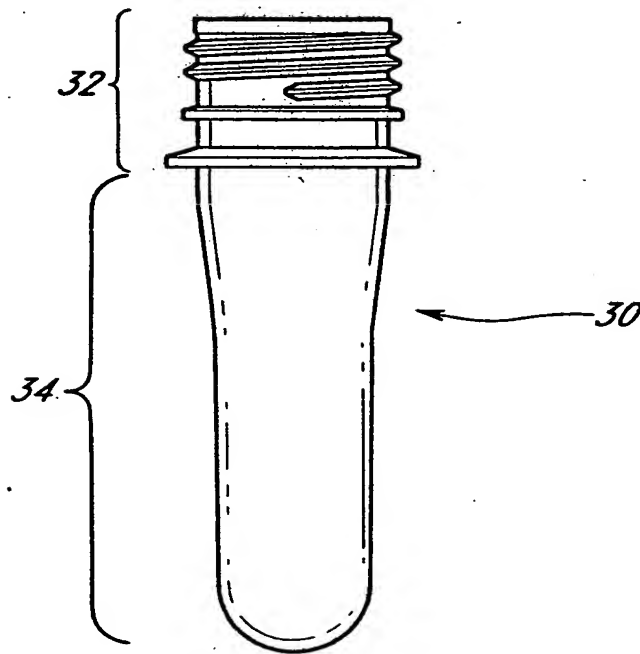


FIG. 1

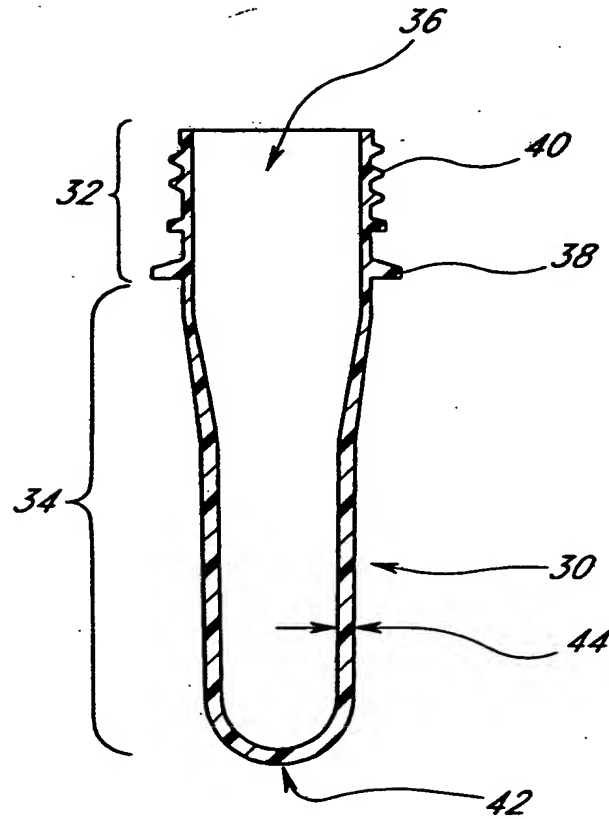


FIG.2

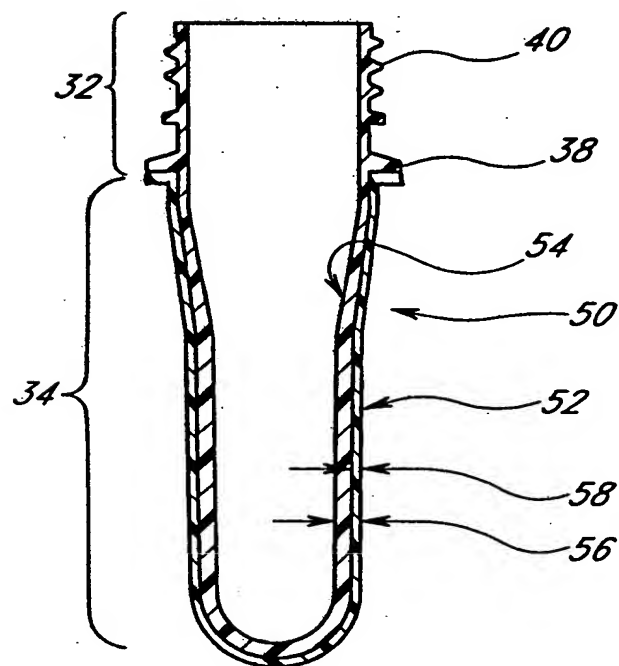


FIG. 3

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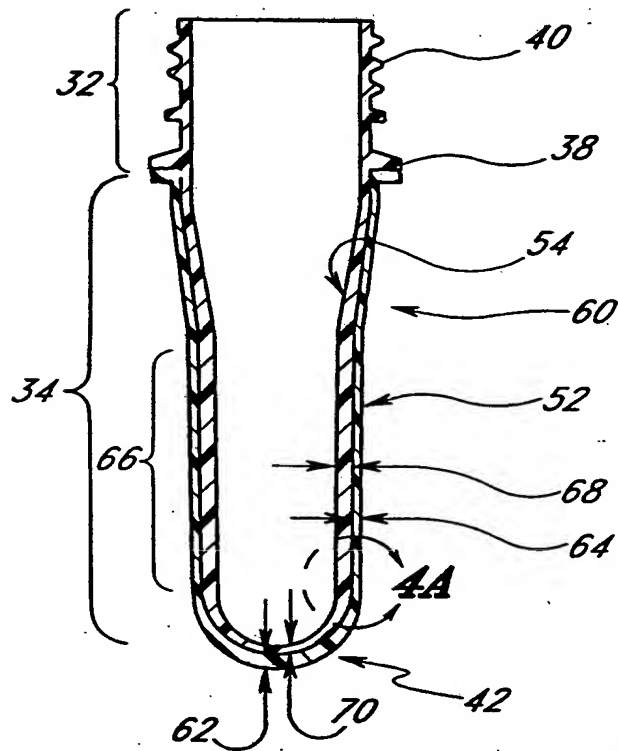


FIG. 4

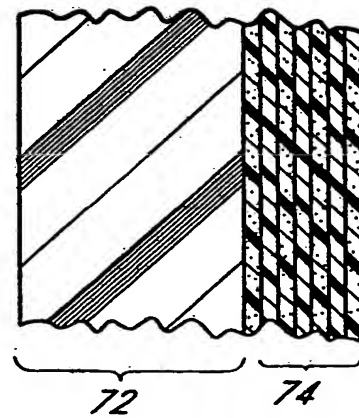


FIG. 4A

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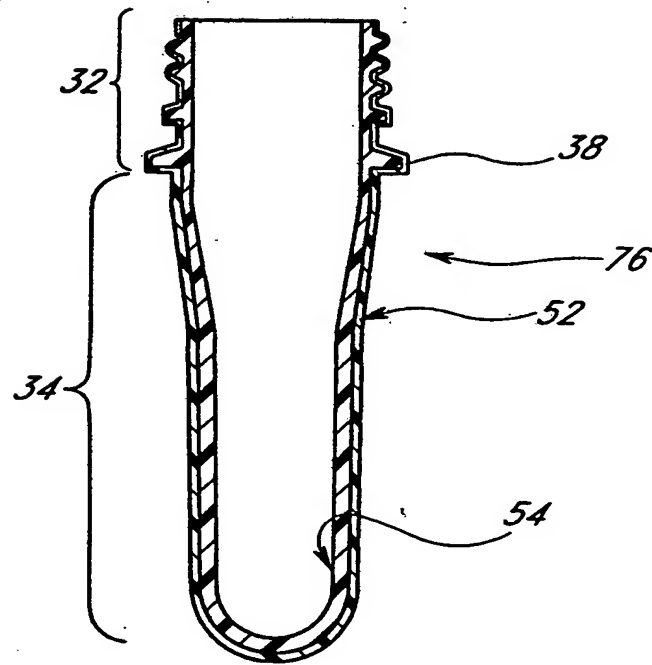


FIG.5

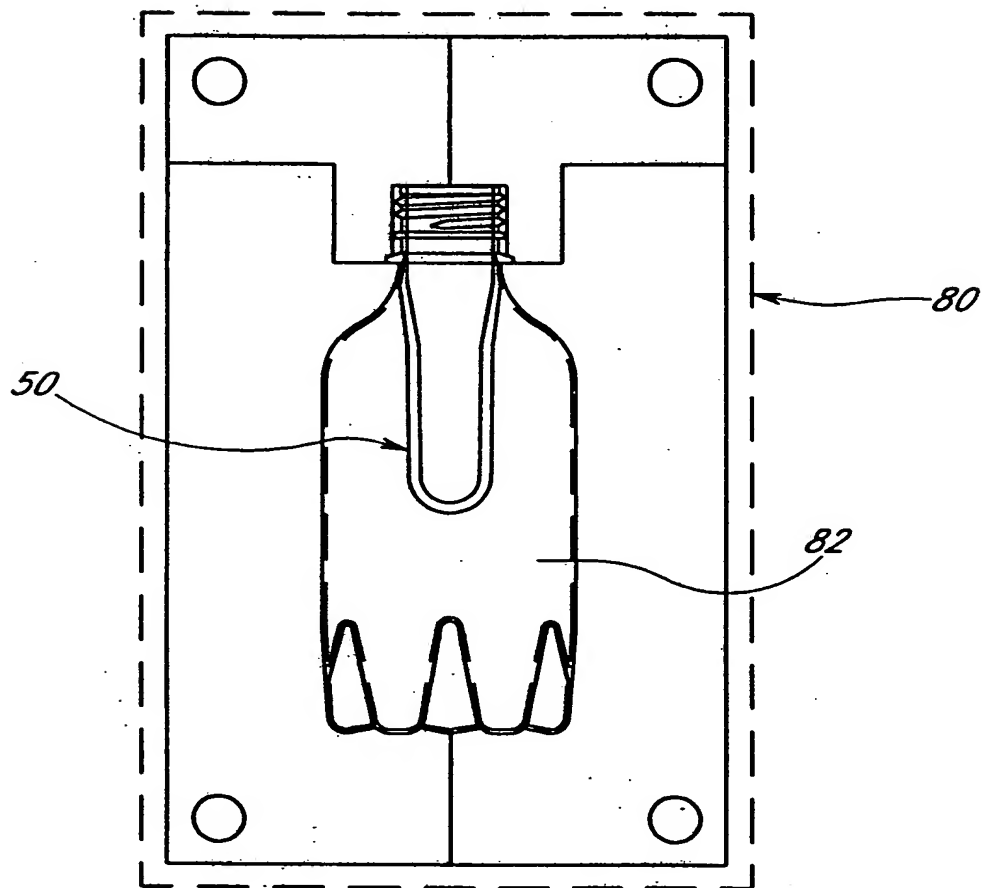


FIG. 6

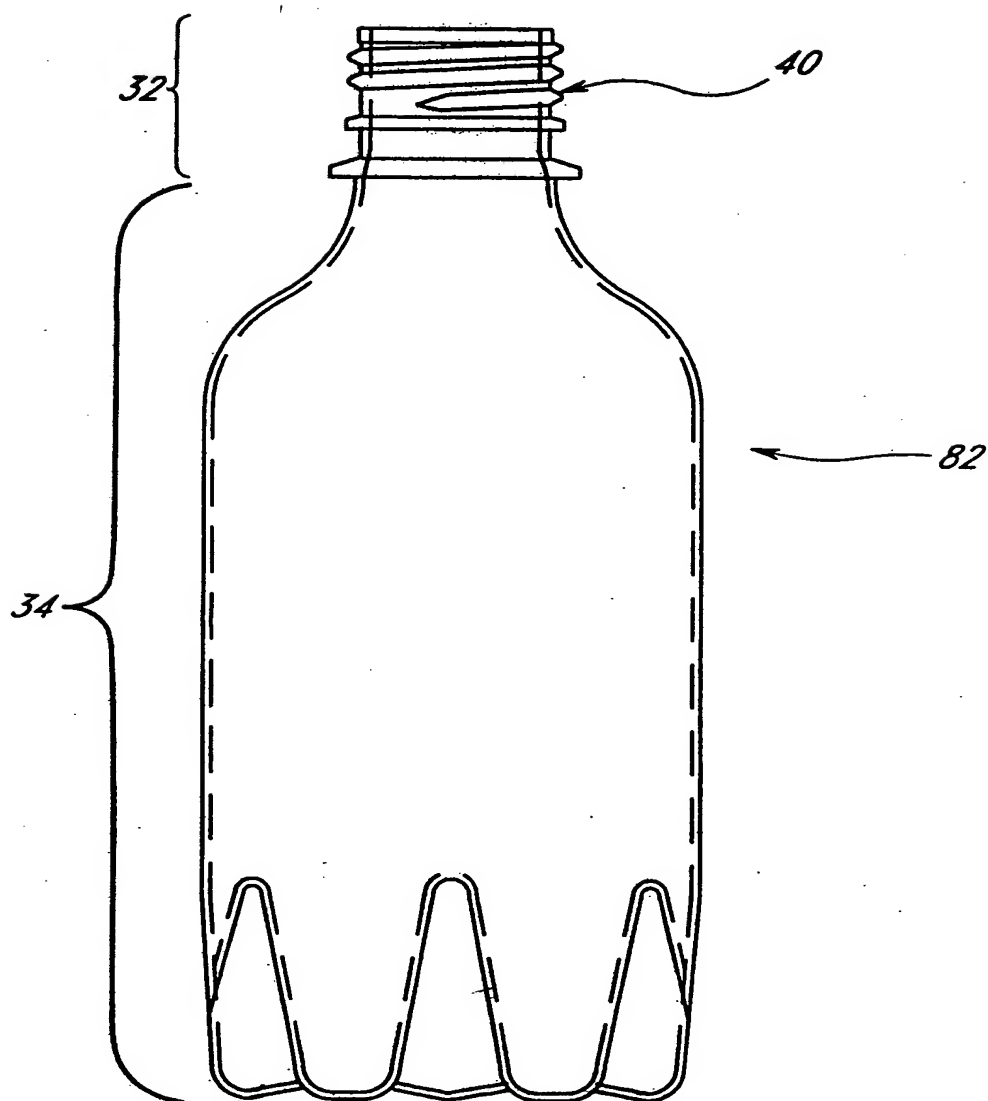


FIG. 7

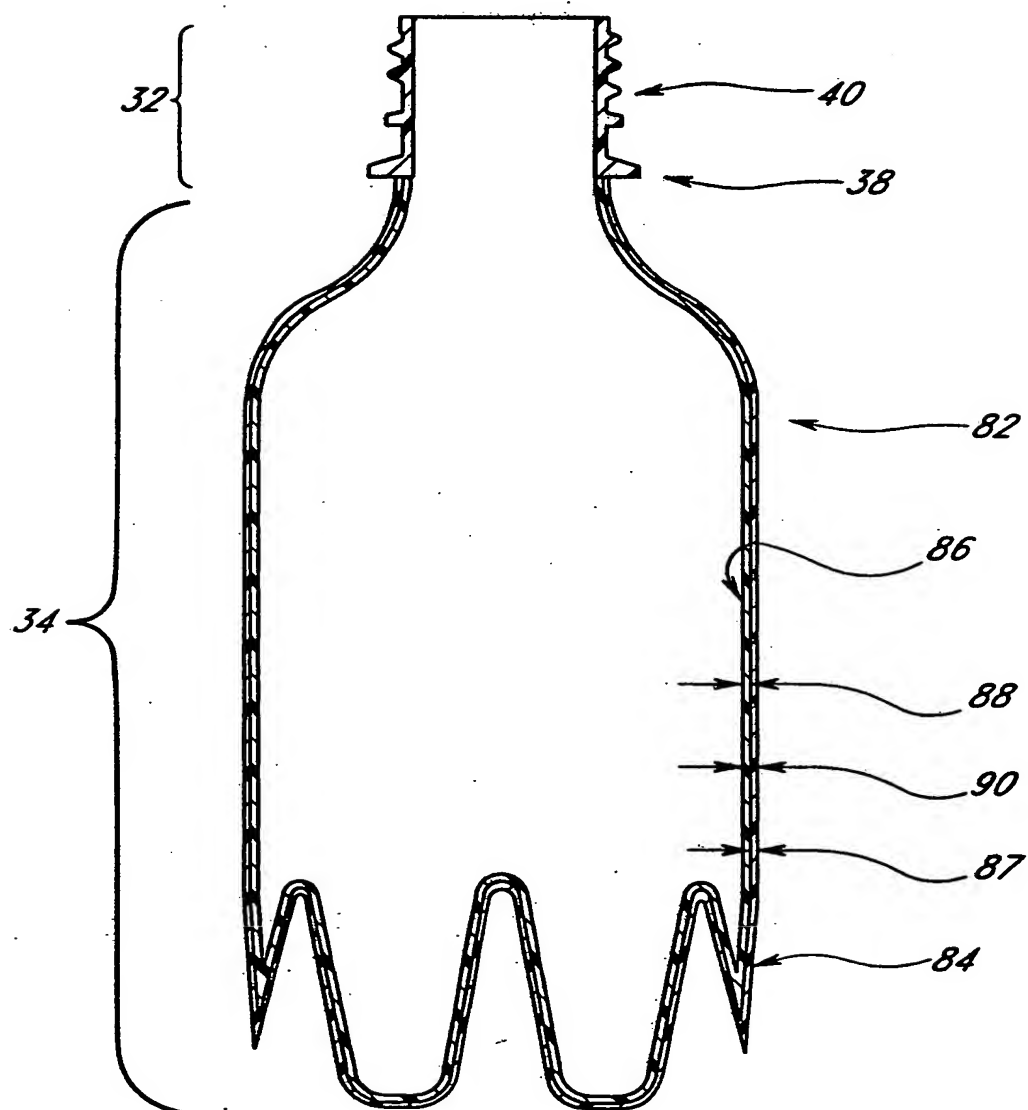


FIG. 8

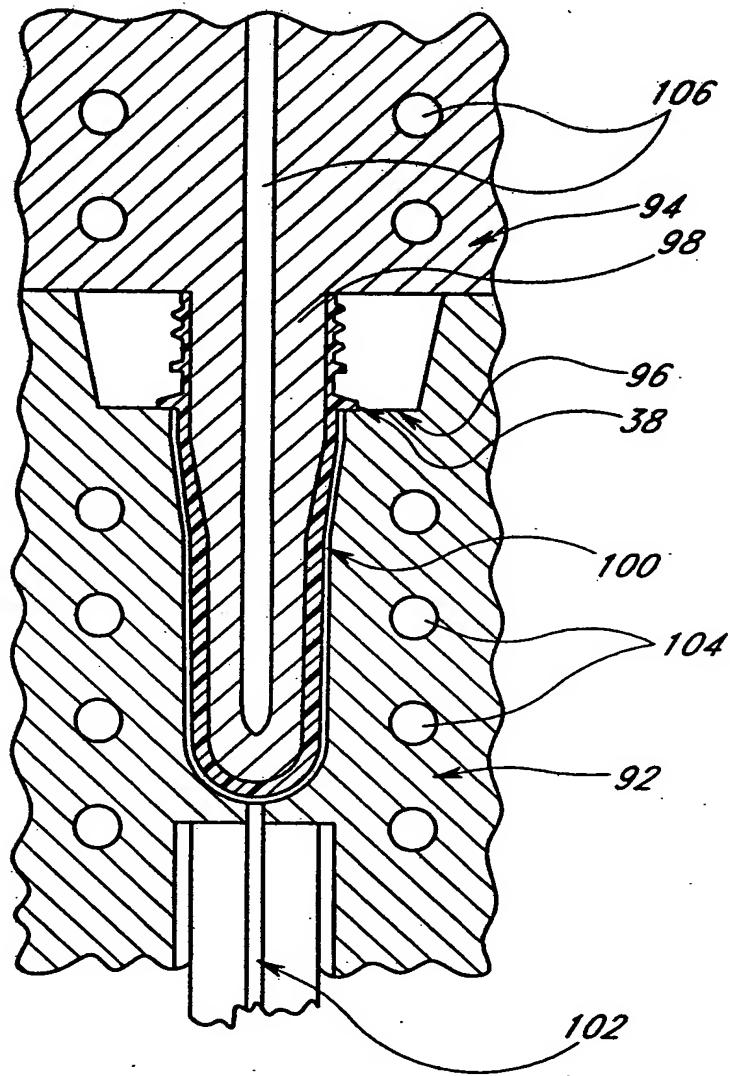


FIG. 9

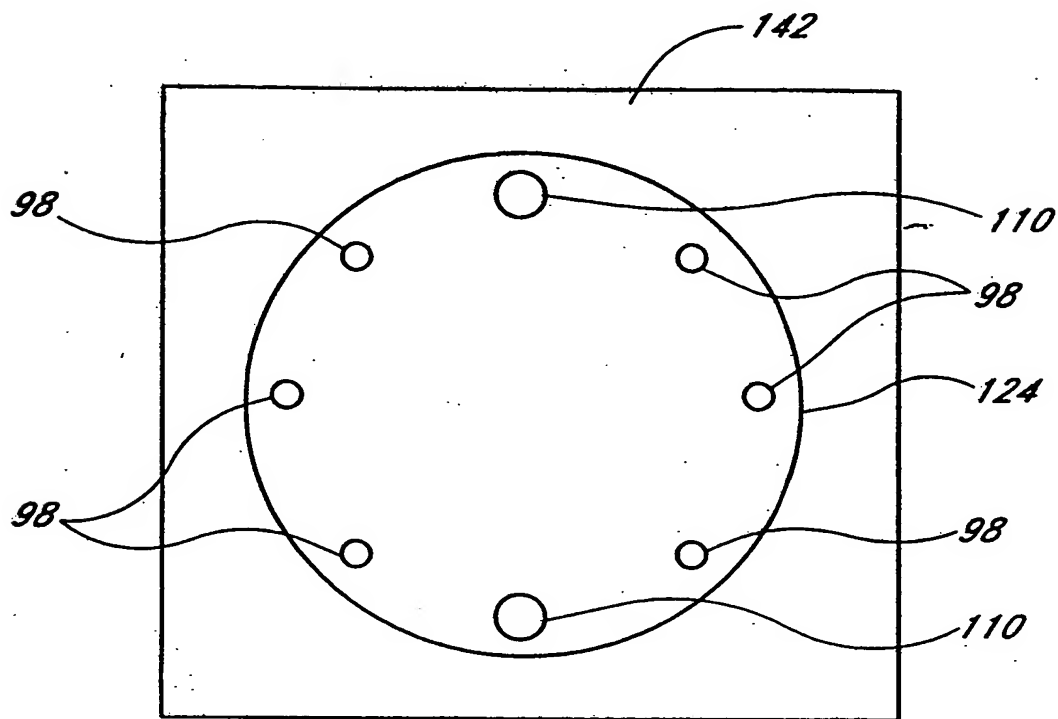


FIG. 10

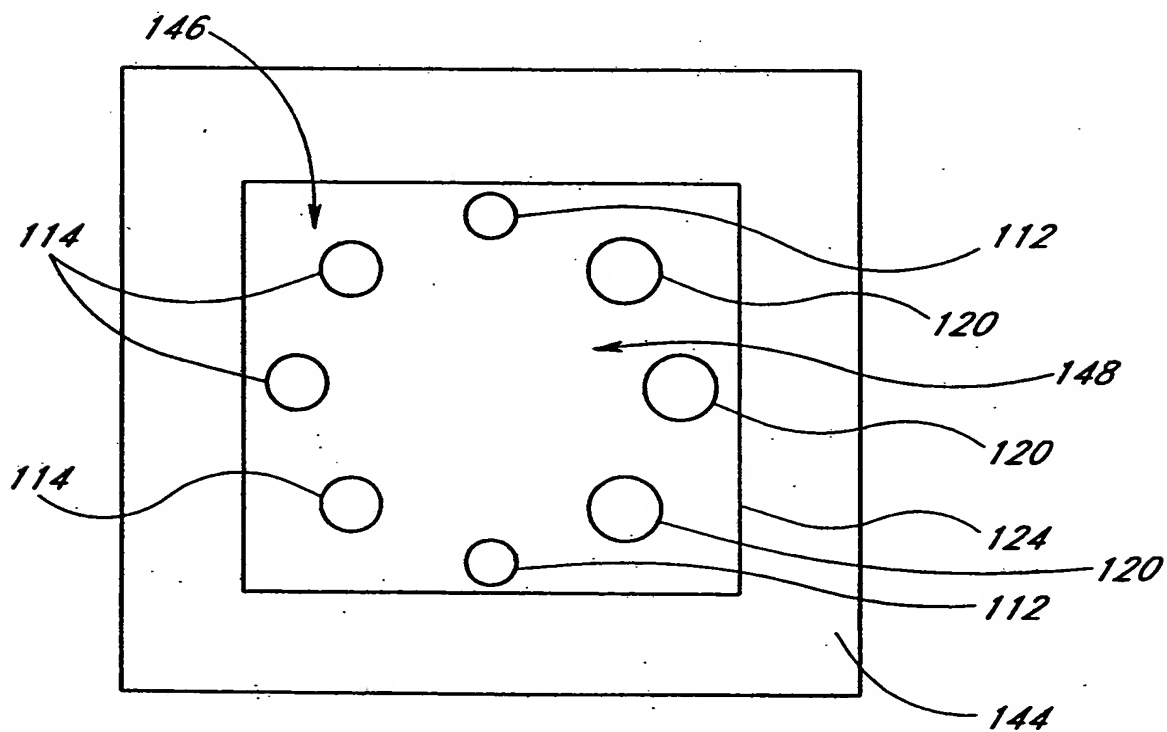


FIG. 11

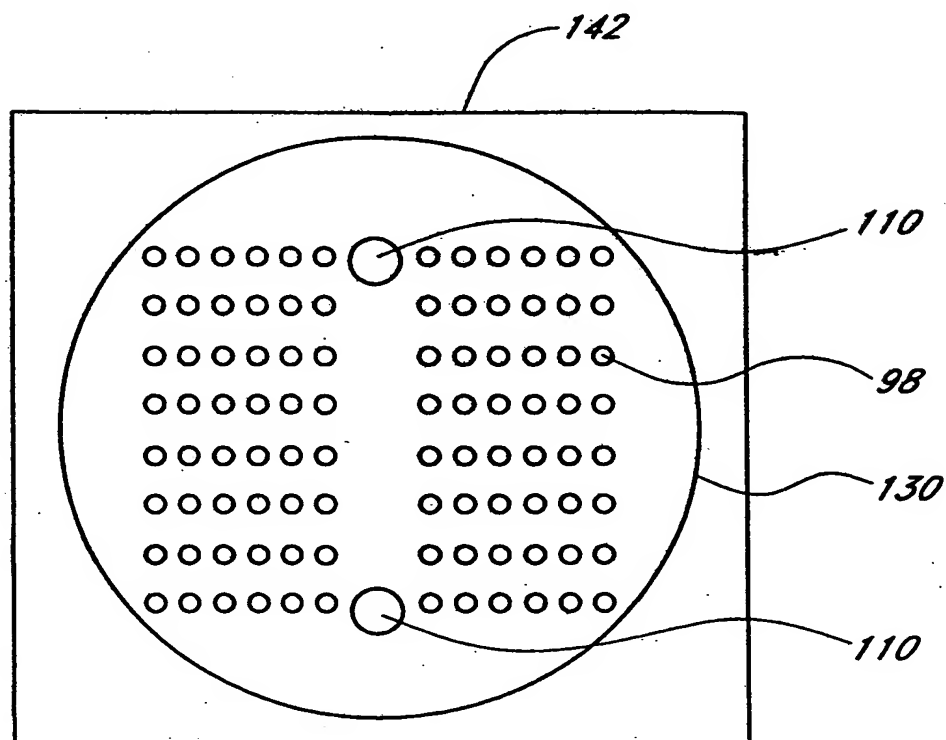


FIG. 12

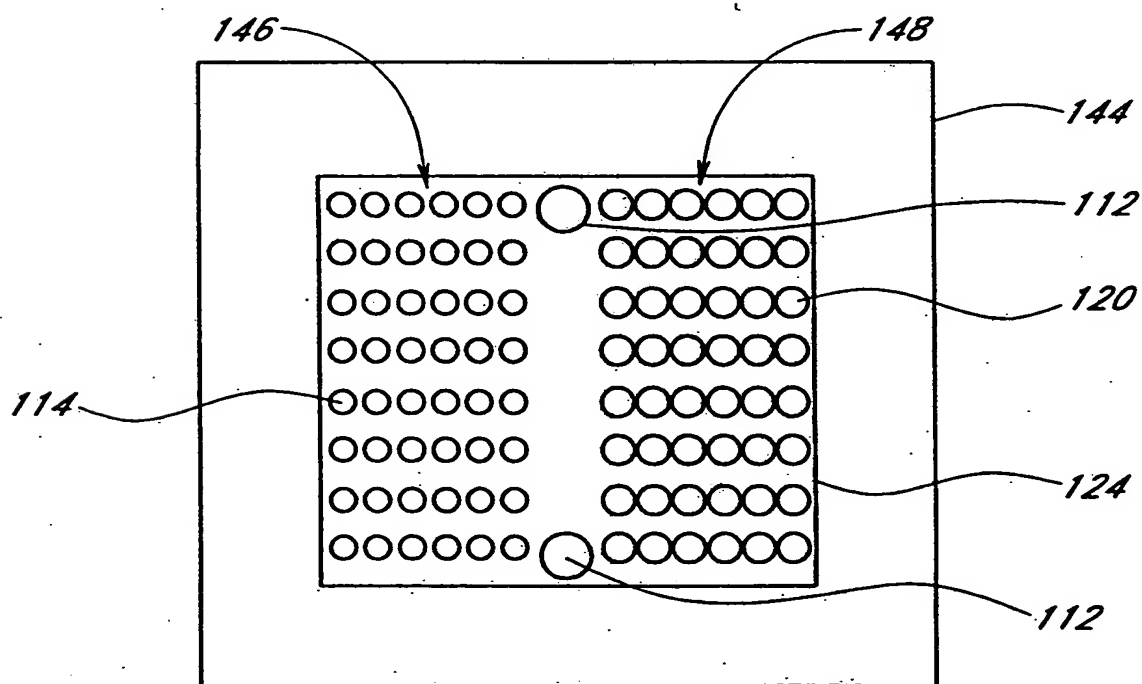


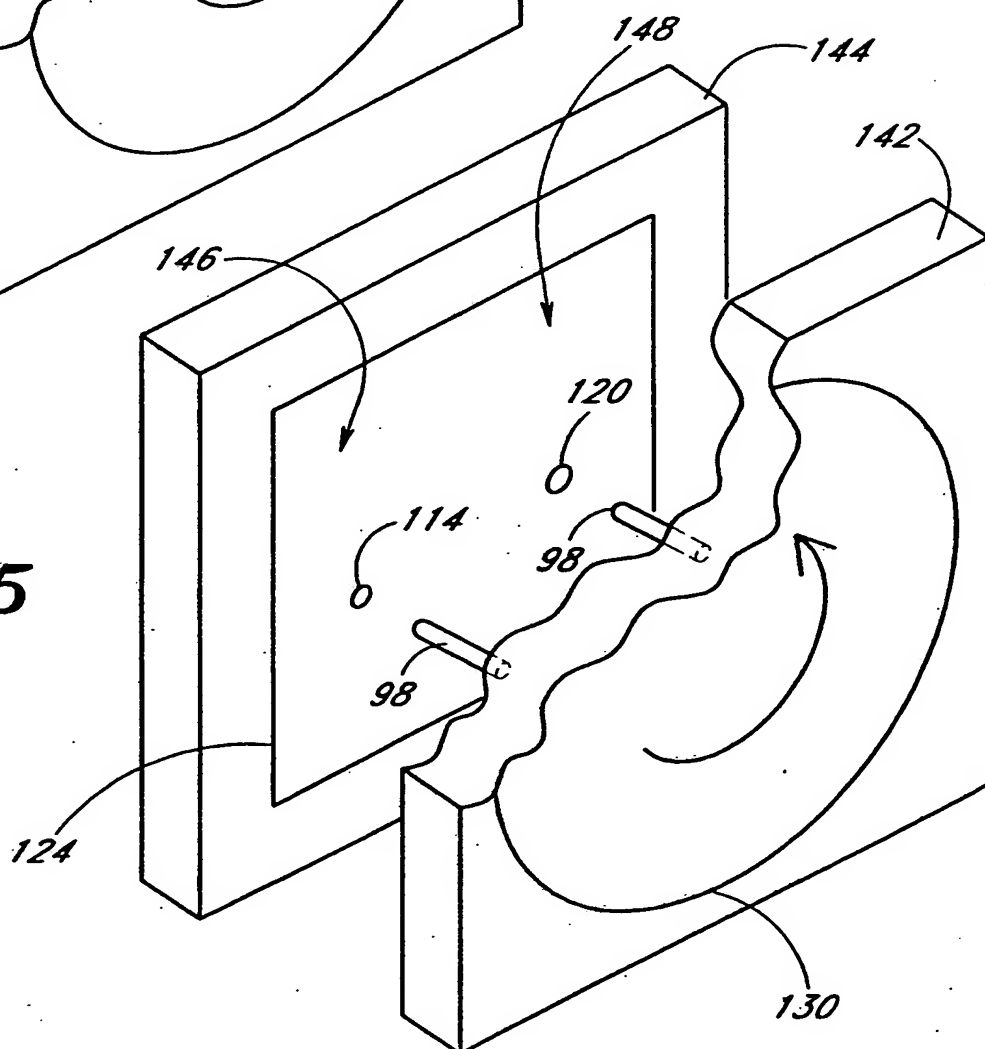
FIG. 13

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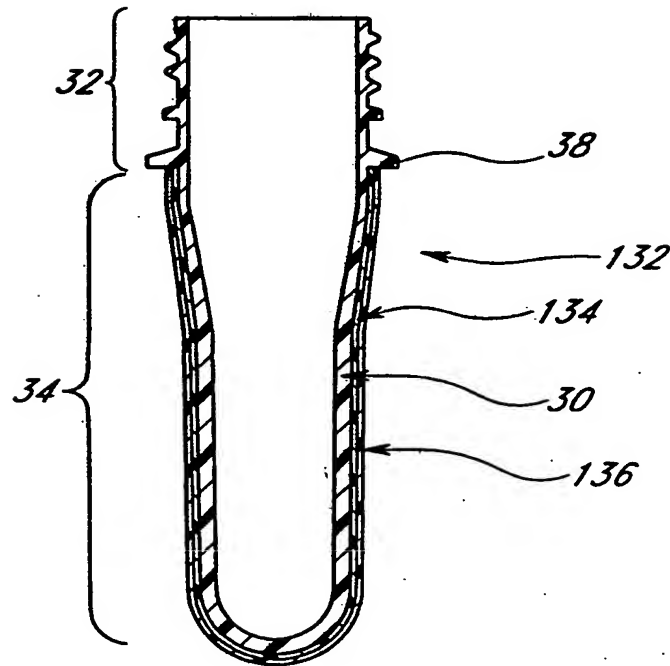


FIG. 16

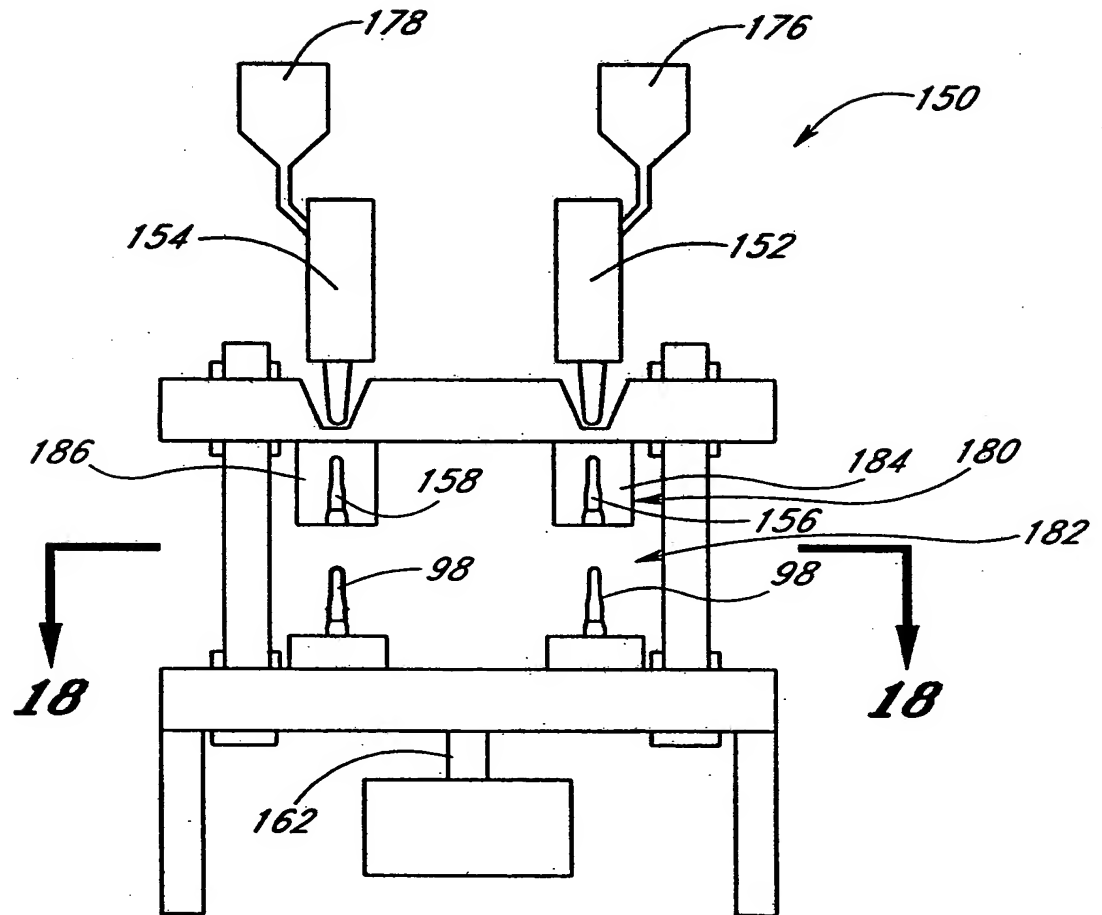
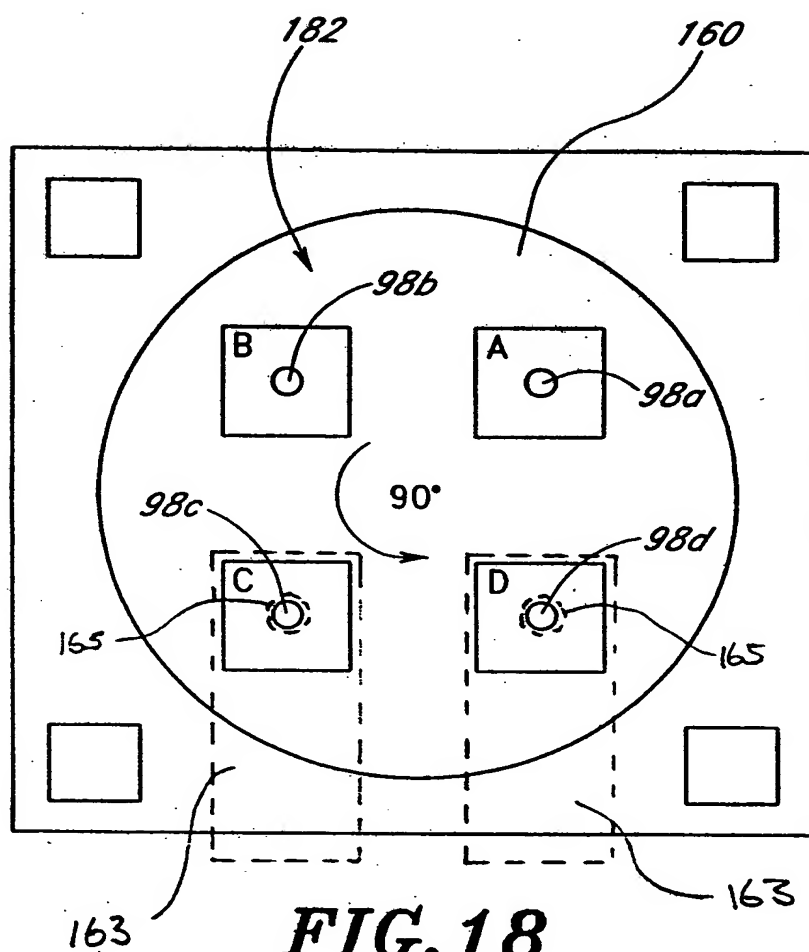


FIG. 17



STAGE	ACTIVITY
0	New Cycle start point
a	Insert mandrel into molding cavity
b	Inject and cool
c	Remove mandrel from cavity
d	Index 90°
e	Insert mandrel into coating cavity
f	Inject and cool
g	Remove mandrel from cavity
h	Index 90°
i	Preform cools on mandrel
j	Index 90°
k	Preform cools on mandrel
l	Eject preform
m	Index 90°

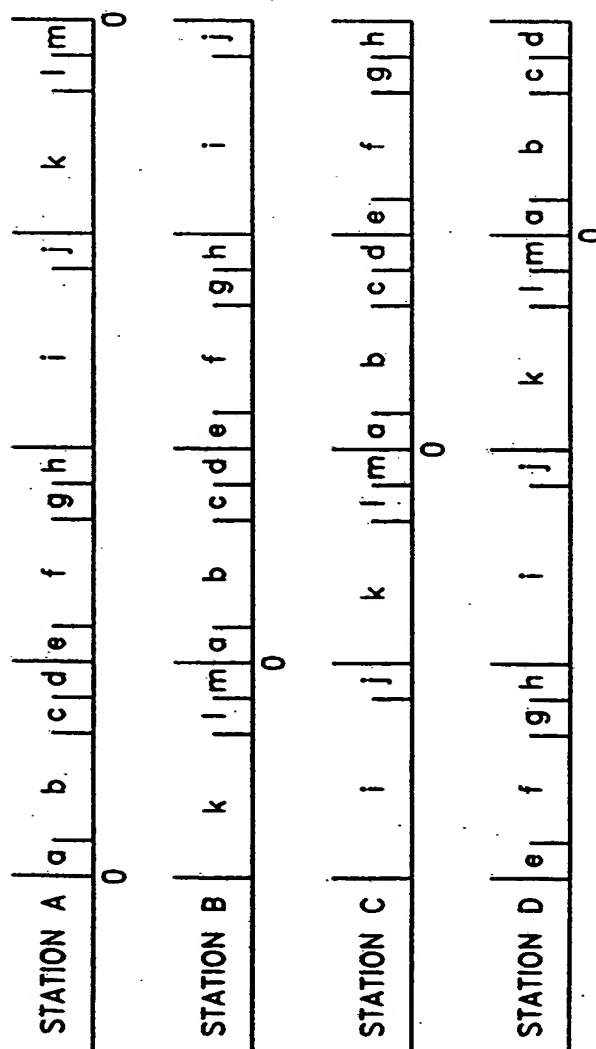


FIG. 19

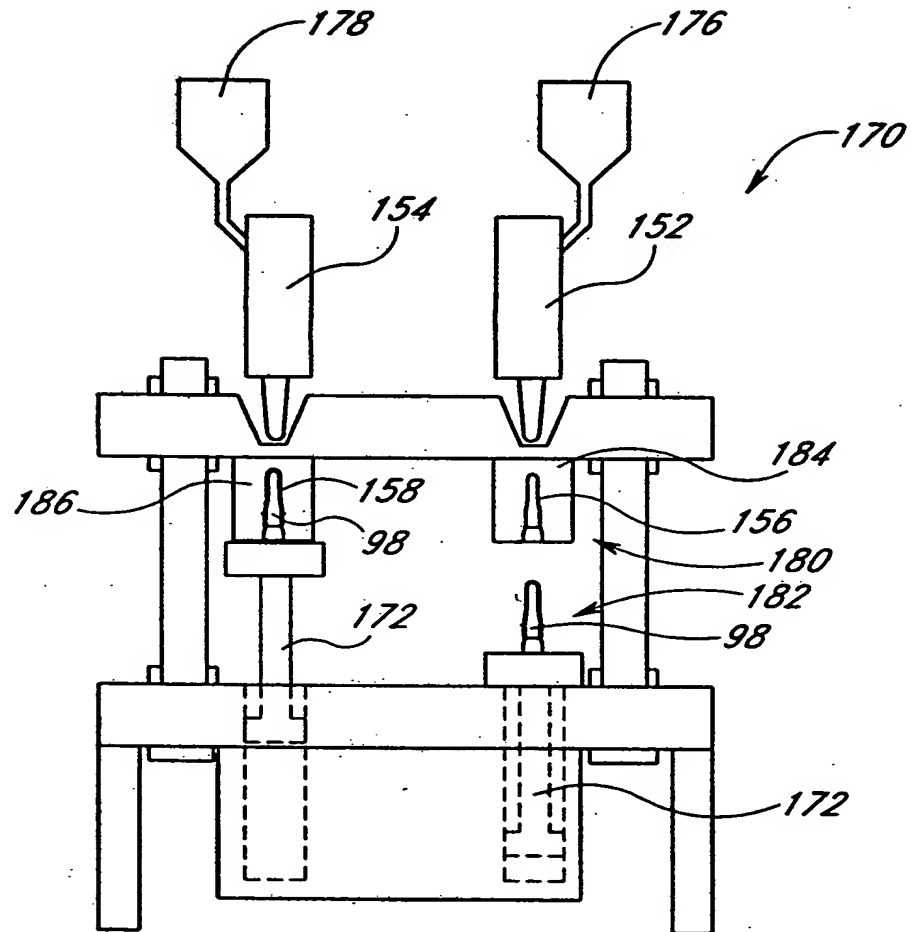


FIG. 20

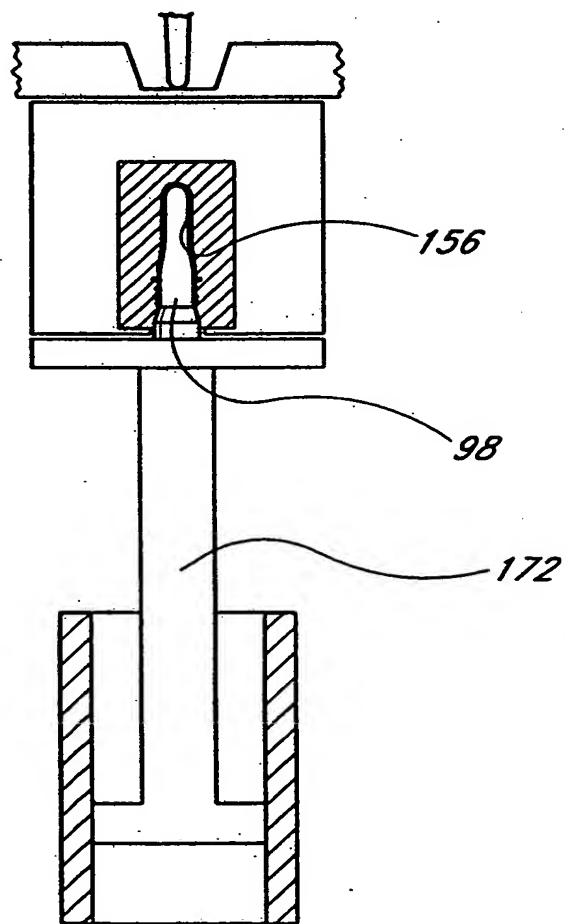


FIG.21

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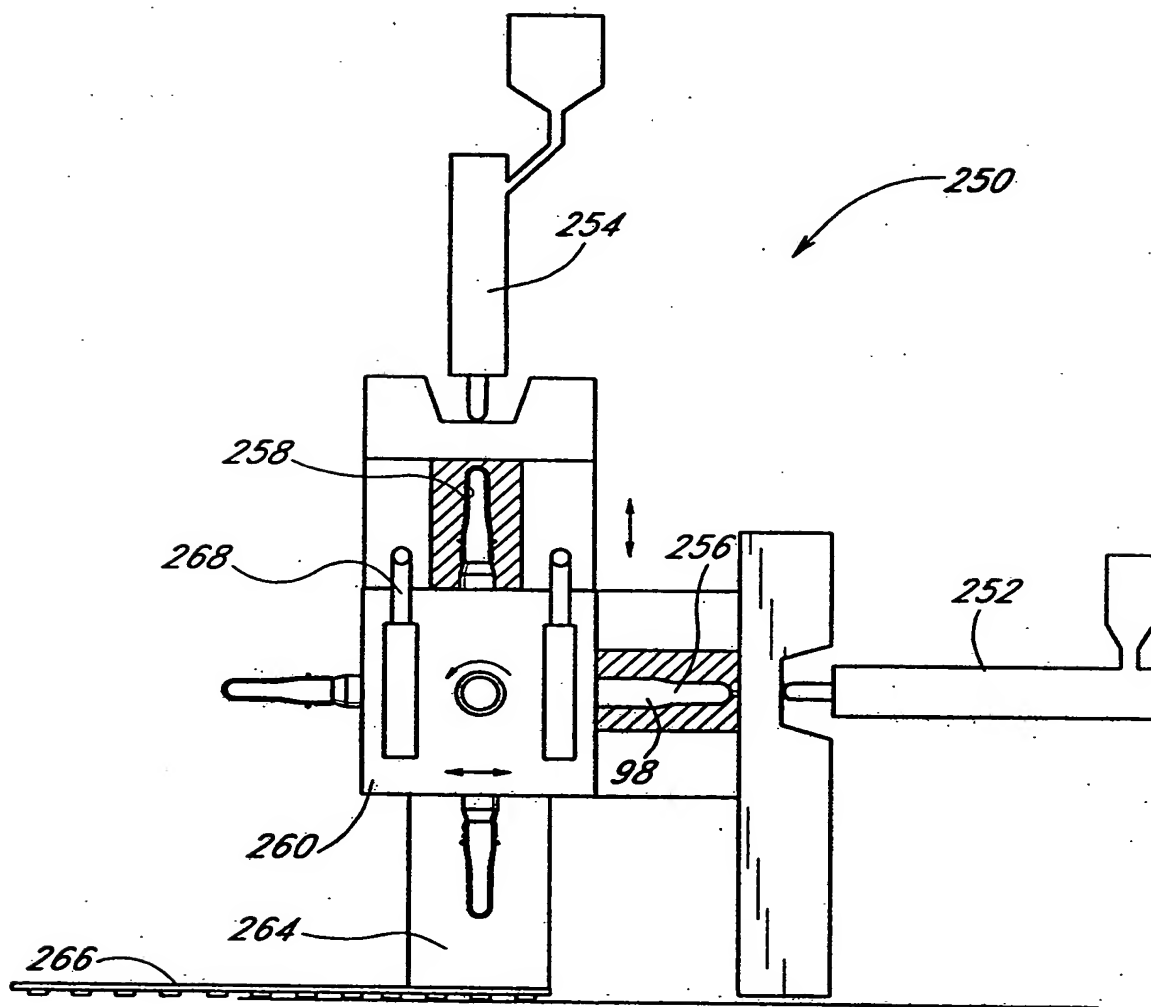


FIG. 23

STAGE	ACTIVITY
0	New Cycle start point
a	Wait
b	Insert mandrel into mold cavity
c	Inject and cool
d	Open mold
e	Wait
f	Rotate turntable 90°
g	Insert mandrel into 2d mold cavity
h	Wait
i	Inject and cool
j	Wait
k	Open mold
l	Rotate 90°
m	Perform cools on mandrel
n	Rotate 90°
o	Perform, cools on mandrel
p	Eject Perform
q	Rotate 90°

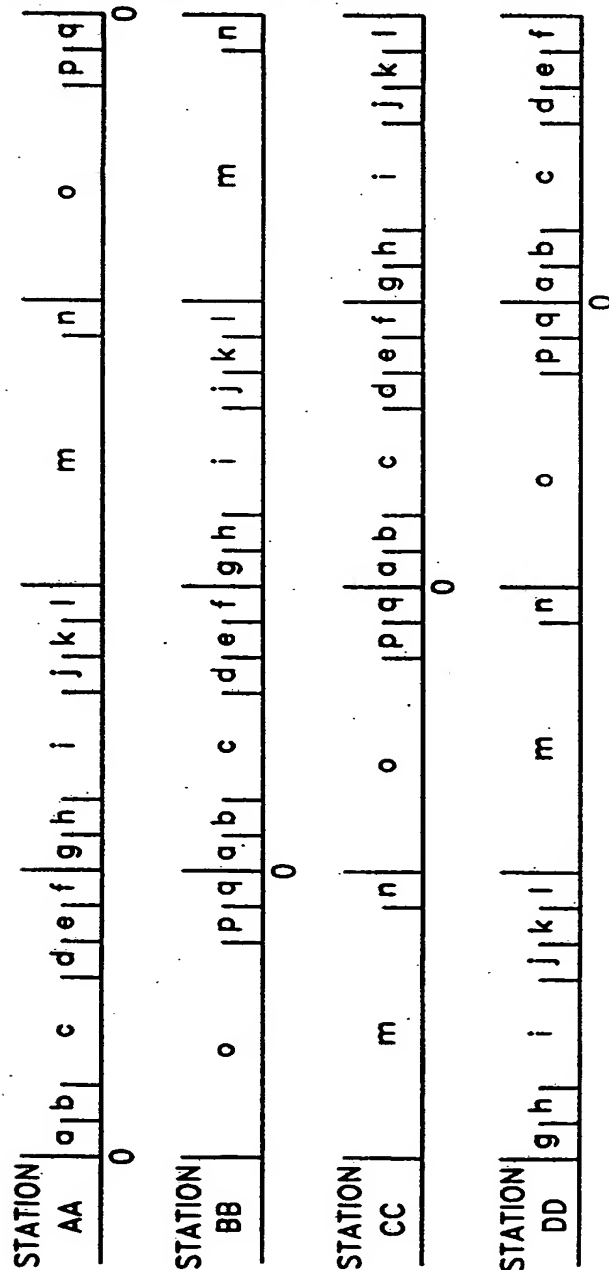


FIG.24

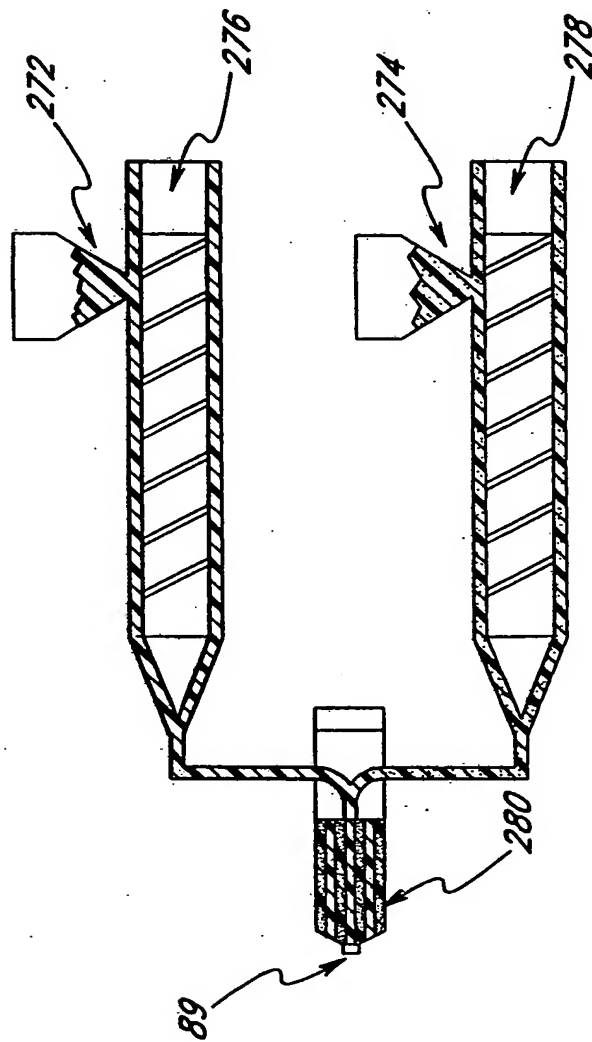


FIG. 25

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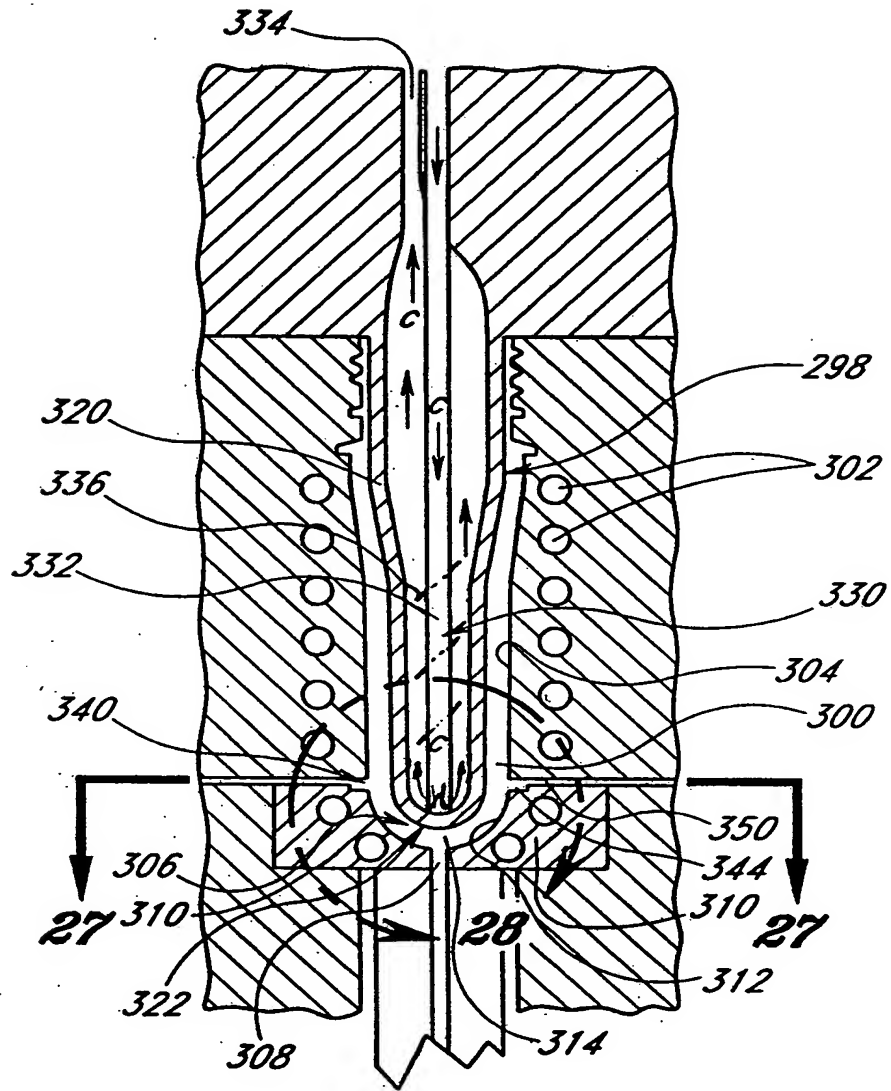


FIG.26

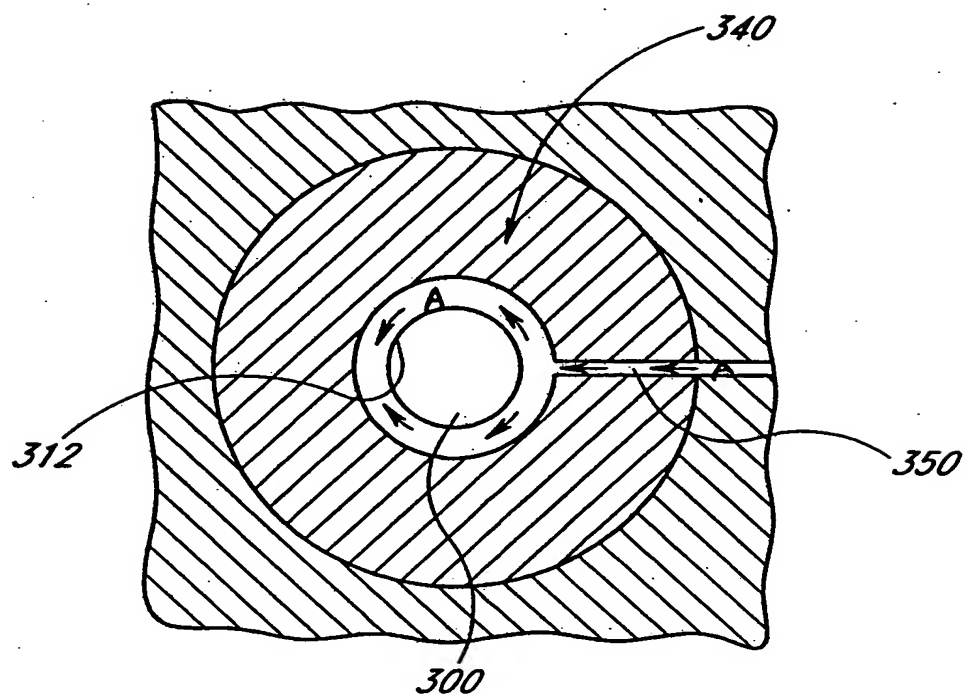


FIG. 27

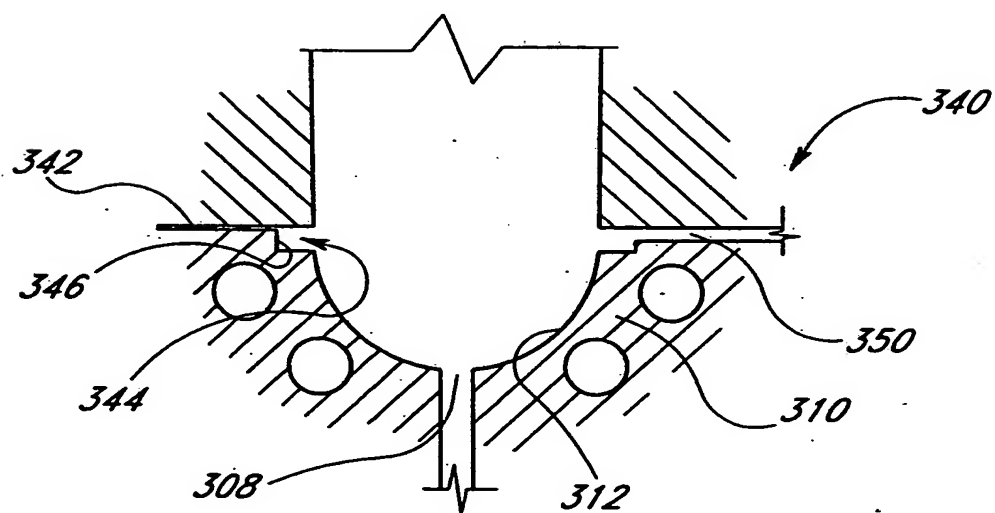


FIG. 28